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Wednesday, August 24—Arrive at Las Vegas at 6:15 A.M., at Albuquerque at 11:15 A.M., at Flagstaff at 9:14 P.M. Visit the Lowell Observatory.

Thursday, August 25—Leave Flagstaff at 11:05 A.M. Arrive at Grand Canyon at 4:45 P.M. The party will remain at Grand Canyon until Saturday evening. During the stay various excursions may be made; that to Grand View is especially recommended. Accommodations at Hotel El Tovar. Rates, including room and meals, \$4.00 a day and upward.

Saturday, August 27—Leave Grand Canyon at 7:30 P.M.

Sunday, August 28—Arrive at Pasadena at 2:00 P.M. Accommodations at Hotel Maryland. Rates, room with bath and meals, \$5.00; without bath, \$4.00.

Monday, August 29—10:00 A.M. Drive about Pasadena and environs. 4:00 P.M. Garden party at the home of Mr. and Mrs. Hale.

Tuesday, August 30—Leave for summit of Mount Wilson at 9:00 A.M. Arrive about 4:00 P.M. Accommodations at Mount Wilson Hotel. Rates, American plan, \$3.00 a day.

The sessions of the Solar Union will be held at Mount Wilson on Wednesday, Thursday, Friday and Saturday, August 31–September 3. They will be devoted to the reports of the various committees of the union and to the discussion of questions concerning the furtherance of solar and related investigations. The instrumental equipment of the Mount Wilson Solar Observatory will be in regular operation and open to inspection by those present. The return to Pasadena will be made on Sunday afternoon, September 4, and the following day will be devoted to an inspection of the Pasadena offices, the shops and the physical laboratory of the Solar Observatory.

#### SCIENTIFIC NOTES AND NEWS

PROFESSOR ADOLF VON BAEYER, the eminent organic chemist of Munich, has celebrated the fiftieth anniversary of his university teaching.

DR. JULIUS HAHN, professor of cosmical physics at Vienna, retires from active service at the close of the present semester.

At its last commencement De Pauw University conferred the degree of doctor of laws

on Dr. D. T. MacDougal, director of the Desert Laboratory of the Carnegie Institution.

SIR HENRY MORRIS has been elected president of the Royal Society of Medicine.

At the recent meeting of the Museums Association held at York, Mr. H. M. Platnauer was elected president.

MISS CAROLINE HAZARD has resigned the presidency of Wellesley College, which she has held for the past eleven years.

THE Cameron Prize of about £80, awarded every five years by the Edinburgh University for the most important addition to practical therapeutics during that period, has been awarded by the senate to Dr. C. G. Beer, professor of surgery at Berlin.

THE Balbi-Valier prize of \$600 has been awarded by the Venice Academy to Professor F. Sanfelice, of Messina, for his research on cancer.

MR. ALFRED H. BROOKS is continuing the supervision of Alaskan surveys and investigations. He is about to start for Alaska, where he will join the Martin party in the Matanuska coal field. Later he will visit the Knopf party in the Juneau district and will then go to Fairbanks and finally, in the fall, to Nome.

LIEUTENANT FILCHNER, who has bought the Norwegian sailing vessel *Bjorn*, hopes to start next April for the Antarctic where he will carry on explorations west of Coat's Land.

MR. W. S. GRIESA, proprietor of the Mount Hope Nurseries, Lawrence, Kansas, has established, in memory of his father, the late A. C. Griesa, a research fellowship in entomology at the University of Kansas. Mr. H. W. Lohrenz, a graduate research student of entomology in the University of Kansas, has been appointed to this fellowship and began his work on the fifteenth of June.

On Sunday, October 2, 1910, the unveiling of the statue of Johann Gregor Mendel will take place at Gregor-Mendel-Platze in Altbünn and at the close of the dedication a banquet will be given in the Deutsches Haus. Invitations have been issued by Dr. Stephan Freiherr v. Haupt-Buchenrode, chairman of

the committee, Professor Dr. E. v. Tschermak, chairman of the international committee and Dr. Hugo Iltis, secretary of the international and local committees. An invitation to the dedication is extended by the international committee to all Americans who contributed to the fund raised for this monument as well as to others interested. The president of the international committee wishes to express to those Americans who contributed his thanks for their participation. The contribution from America was the greatest contributed by men of science in any country, amounting to 4,500 Kronen (\$900). The total amount collected was 50,000 Kronen.

THE council of the American Association of Pathologists and Bacteriologists has passed the following resolution:

The council of the American Association of Pathologists and Bacteriologists record with great regret the death of Dr. Eugene Hodenpyl of New York which occurred on May 2, 1910.

Dr. Hodenpyl was one of the founders of the association, an active and consistent supporter of its interests, a member of the council from 1900 to 1904, and president in 1904.

He brought to the association the results of his own valuable studies, the critical judgment of a pathologist of wide experience, and the pleasant personality of a genial friend.

The council, therefore, express their deep sense of loss by his death, and they order that this resolution be placed on the minutes of the association, and that a copy of it be sent to his family.

ASSISTANT PROFESSOR EDWARD A. BESSEY, of the department of electrical engineering of the Colorado Agricultural College at Fort Collins, died suddenly of a severe pulmonary hemorrhage on July 12. After nearly ten years of practical experience as an electrical expert with the General Electric Company at Pittsfield, Mass., he was elected instructor in electrical engineering in the Colorado Agricultural College in 1909, and after a year of teaching was promoted to the assistant professorship a few days before his death, by the trustees of the college. He was a member of Phi Beta Kappa and Sigma Xi honor societies

and of the American Institute of Electrical Engineers.

It is announced that Herr Frick, who has been engaged in anthropological exploration in South America, has been murdered by Indians in southern Bolivia.

PROFESSOR T. H. CORE, formerly professor of physics at Owens College, Manchester, died on July 9, at the age of seventy-four years.

MR. HARRY W. COX, an English maker of scientific instruments, died on July 9, as the result of dermatitis contracted several years ago while carrying on experiments to improve the application of X-rays to medical diagnosis.

THE deaths are also announced of Professor T. Zona, director of the observatory at Palermo; of Professor A. P. Sokoloff, until recently vice-director of the Pulkova Observatory, and of Dr. Wilhelm Winkler, the German astronomer.

THE arrangements for the Sheffield meeting of the British Association which opens on August 31 includes, according to the *London Times*, numerous garden parties and receptions. Lord Fitzwilliam is giving a large garden party at Wentworth-Woodhouse, and the Duke of Norfolk is entertaining about 4,000 guests at the Sheffield University on the night before the meeting closes. The Duke of Devonshire is entertaining members of the association at Chatsworth, the Duke of Rutland at Haddon Hall, the Duke of Portland at Welbeck, and the Duke of Newcastle at Clumber. Numerous excursions have been arranged as well as visits to the most important works in Sheffield.

THE thirty-ninth meeting of the French Association for the Advancement of Science will be held at Toulouse from August 1 to 7 under the presidency of Professor Gariel.

THE *Journal* of the American Medical Association states that by the sale of the estate of the late George Crocker, the fund which he bequeathed to Columbia University for the study and prevention of cancer will amount to \$1,500,000.

INDIANA UNIVERSITY owns an experimental

cave farm near Mitchell, Indiana, and has established a small laboratory there primarily for cave work. Cement pools have been placed inside and outside the caves and offer excellent opportunities for breeding cave animals in the light and outside forms in the dark. In fact, a more favorable place could not be found for a study of cave animals. The university offers a five-hundred-dollar fellowship in addition to a furnished cottage, to any one who has had sufficient training to take up such work. Applications should be sent to F. Payne, Winona Lake, Indiana.

THE British civil pensions granted during the year ended March 31, 1910, are, as we learn from *Nature*, as follows: Among the pensions granted in recognition of scientific work we notice the following: Mr. Thomas Bryant, in recognition of his services towards the advancement of surgery, £100; Mrs. M. L. Gamgee, in consideration of the valuable contributions to physiological science of her husband, the late Professor Arthur Gamgee, £70; Mrs. E. J. Seeley, in consideration of the valuable writings on geology and paleontology of her husband, the late Professor H. G. Seeley, £70; Miss H. S. Murphy, in consideration of the services rendered by her father, the late Professor E. W. Murphy, in furthering the use of chloroform, £50; Mr. J. Sully, in recognition of his services to psychology, in addition to his existing pension, £95; Mrs. Joanna Calder Fraser, in consideration of the value of the investigations in anatomy and embryology of her husband, the late Professor A. Fraser, £70; Miss Julia Dobson, in recognition of the important services rendered by her brother, the late Surgeon-Major G. E. Dobson, F.R.S., to zoological science, in addition to her existing pension, £15.

THE Botanic Garden Syndicate of Cambridge University states that the experiments in plant breeding have continued, but the sacrifices that have been made in providing space under glass for this work necessarily injure other important interests. Space out of doors is still wanted for growing specimens in greater numbers for class work. In the report

of last year the hope was expressed that an arrangement would be made with one of the colleges for ground upon which to plant trees and shrubs that are not provided for in the Botanic Garden, but unfortunately it was not fulfilled. Fresh arrangements for this purpose are now under consideration. In seed-raising for the forestry department much work has been done. During the year 1909, 1,034 plants, 1,601 bulbs and 3,131 packets of seeds were received, while 1,789 plants, 546 cuttings, and 3,582 packets of seeds were distributed, the latter chiefly to botanic gardens. The number of specimens supplied for botanical purposes amounted to 108,979, representing an increase of 7,500 over last year.

*Nature* states that on June 20, at the invitation of the lord mayor of Birmingham, a meeting of the most prominent naturalists of the city was held in the Council House to consider the establishment of a Natural History Museum. The lord mayor, in opening the meeting, stated that the city council is willing to allot considerable space for a natural history museum, but can not undertake to provide the collections. Sir Oliver Lodge moved "that this meeting heartily approves of the establishment of a natural history museum worthy of the city." In the course of an interesting speech he remarked that the study of natural history is of special value to town citizens, and it has become more difficult to carry on the study save by such means as the meeting had assembled to promote. Birmingham is a great city, and can well afford a natural history as well as an art museum. Sir George H. Kenrick seconded the motion. He emphasized the responsibility that rests on individual effort to make the museum a success. He laid particular stress on the value of a library attached to the museum, and well stocked with books dealing with the subjects illustrated only perhaps partially in the galleries. Alderman Beale, chairman of the art gallery committee, and other speakers, including Professor Carrier, strongly advocated the formation of a museum. If the city council carries out its intention of allotting the space, there will ap-

parently be no difficulty in filling it, to the great advantage of all branches of the community. An influential committee was formed, and the motion was carried unanimously.

It is stated in *Nature* that a committee appointed by Earl Carrington to advise the Board of Agriculture on all scientific questions bearing directly on the improvement of agriculture will deal especially with the methods to be adopted (a) for promoting agricultural research in universities and other scientific schools; (b) for aiding scientific workers engaged in the study of agricultural problems, and (c) for insuring that new scientific discoveries are utilized for the benefit of agriculturists. The committee will consist of the Duke of Devonshire, Lord Reay, Sir Edward Thorpe, C. B., F.R.S., Mr. David Davies, M.P., Dr. J. J. Dobbie, F.R.S. (principal of the government laboratories), Professor J. B. Farmer, F.R.S., Dr. S. F. Harmer, F.R.S. (keeper of zoology at the Natural History Museum), Dr. R. Stewart MacDougall (technical adviser in zoology to the Board of Agriculture and Fisheries), Mr. T. H. Middleton (one of the assistant secretaries to the Board of Agriculture and Fisheries), Mr. Spencer P. Pickering, F.R.S., Lieutenant Colonel David Prain, C.I.E., F.R.S. (director of the Royal Botanic Gardens, Kew), Mr. H. S. Staveland-Hill, M.P., Mr. Stewart Stockman (chief veterinary officer of the Board of Agriculture and Fisheries), Dr. J. J. H. Teall, F.R.S. (director of the Geological Survey and Museum) and Dr. David Wilson. Mr. Middleton will act as chairman of the committee, and one of the officers of the Intelligence Division of the board will act as secretary. A meeting of the Society for Extending the Rothamsted Experiments was held at Rothamsted on June 16 under the presidency of the Duke of Devonshire. The society has been incorporated with the object of obtaining additional funds for the development of the agricultural investigations which have been carried on so long under the late Sir John Lawes and the Lawes Agricultural Trust which he

afterwards founded. The immediate object of the society is to obtain a sum of £5,000 in order to secure about 200 acres of land adjoining the present experimental fields, and erect thereon the buildings required for feeding experiments with the crops under investigation. An appeal for subscriptions towards thus securing a small self-contained farm for the Rothamsted Experimental Station is now being circulated, and at this meeting of the society a first list of donations was reported.

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#### UNIVERSITY AND EDUCATIONAL NEWS

THE additional sum of £21,000 for the Scottish universities is included in the supplementary estimates of the British government, bringing the total for the year to £63,000. This is an instalment of a grant recommended by a treasury committee presided over by Lord Elgin. The total addition recommended was about \$40,000.

LORD STRATHCONA, chancellor of Edinburgh University, has given the university £10,000 for the endowment of a chair of agriculture.

HERR GUSTAV EBBINGHAUS, of Bonn, has given \$25,000 toward a new physical laboratory for the university.

MORE than 2,600 students are attending the summer session of Columbia University, about 700 more than last year, which established a new record. The registrations since the beginning have been as follows: 1903, 993; 1904, 961; 1905, 1,018; 1906, 1,041; 1907, 1,392; 1908, 1,532; 1909, 1,971; 1910, 2,624.

THE department of plant pathology of the New York State College of Agriculture as organized for 1910-11 shows the following staff, together with the fellows on research work. The line of investigation which each has under way is also indicated. H. H. Whetzel, professor in charge. Dr. Donald Reddick, assistant professor and expert on the diseases of grapes, will have charge of all the field laboratories. Mr. M. F. Barrus, instructor, expert on the diseases of beans, will have a general charge of the extension work of the department. H. W. Anderson, regular